UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE **STUDY PLAN**

Study ID code CAPMC-T-0423-RA

Evaluation of mycorrhiza on grass performance Title

National Project No. Rangeland 1.1

Study Type AE Active Study status

Location **CAPMC**

Study Leader David Dyer, CAPMC

Duration 2002 - 2008

Cooperators CelPrel

Land Use Rangeland, wildland

Vegetative Practices Primary 550 Range planting

> Secondary 342 Critical area planting

Resource concerns Resource Consideration/Problem

> Soil Restoration, soil erosion Animals Grazing land conservation

Study falls under Section IV, Part 1 and 4 of the CA PM Long Range Plan

LRP

Description Determine if mycorrhiza on seed improves plant

performance

Status of Knowledge Past greenhouse research at the PMC on mycorrhiza has

shown that it does improve plant performance. There is a

Randomized Complete Block Design, three replacations

need to document performance in field conditions.

Experimental Design

Treatment 1 Title: Raw seed

Description: No coating

Title: Mycorrhiza **Treatment 2**

Description: seed coated with mycorrhiza

Treatment 3 Title: Slow release N

Description: Slow release N added to coating

Treatment 4 Title: N and mycorrhiza

Description: Slow release N and mycorrhiza added to

coating

Materials and Methods RCB, three replications using two species, purple

needlegrass and Berber orchardgrass. Planting broadcast in 20X20' plots with 50 PLS per sq. foot.

Perform weed control as needed.

Final Evaluations Field plantings

Technology Transfer

Products

Revise FOTG standards, TechNote

Literature Cited

Keywords Restoration, rangeland, native grass, mycorrhiza, seed

coating

Review by: CA. State Plant Materials Committee

Approvals: As per approval of CAPMC Business Plan